S/K/DY S 5930-3-P A

North Carolina State Data Center Technical Report

No. 4

EQUAL EMPLOYMENT OPPORTUNITY

SPECIAL FILE:

1980 North Carolina Census of Population

Research and Planning Services
Office of State Budget and Management
September, 1983

In its broadest capacity, the North Carolina State Data Center serves to meet the needs for statistical information which arise from all areas of the State, both public and private sectors. From the needs of a county planner or state fiscal officer to the research data required by a professor, a boy-scout troop leader, or a market analyst, State Data Center personnel bring data user and data together, consult on the interpretation and proper use of information, and, in some cases, advise on the best design for the study in which the data are to be used.

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INTRODUCTION

In March, 1983 the U.S. Bureau of Census released the 1980 Equal Employment Opportunity (EEO) Special File for the State to the North Carolina State Data Center. The EEO Special File was produced to help meet the needs of both government and private industry in planning for EEO/Affirmative Action. This file contains detailed occupational categories by race, sex and Spanish origin for all persons in the civilian labor force as of April 1, 1980. It is the 1980 Census counterpart to the 1970 Census file popularly known as the "ORC tapes".

The North Carolina State Data Center, within the Office of State Budget and Management, maintains the complete computer file which gives the distribution of the North Carolina labor force across 503 occupational categories. The information in this Technical Report represents North Carolina's statewide totals for these categories. The identical information for 12 race - sex - Spanish origin groups is available for the State, Standard Metropolitan Statistical Areas (SMSA's), and all cities of 50,000 people or more by request from the North Carolina State Data Center. Also, the North Carolina Labor Market Division of the Employment Security Commission will be disseminating county, SMSA and State level data extracted from this file.

Census figures on number of workers by occupation have generally been accepted as estimates for the number of workers who are "skilled." The number of "available skilled workers" is often needed for affirmative action plans or other EEO-related activities. The EEO Special File addresses this need for work-experience data by furnishing counts of people in specific occupations.

Many entry-level jobs, apprenticeship programs, and other work situations do not require a skill based on work experience (as measured by occupation) but instead require a certain level of educational attainment. Employers recruiting for such jobs or programs need to know the available pool of qualified potential applicants. The table for years of school completed by age of persons in the civilian labor force is designed to help meet this need for data.

Summary Tape File 5 and the printed North Carolina report "Characteristics of the Population: Detailed Characteristics", PC80-1-D will provide tables with other variables pertinent to affirmative action planning, such as income and earnings, veteran status, and occupation by industry.

All the data shown in this report are based on the 1980 Census sample. The data are estimates of the actual figures that would have resulted from a complete-count. Estimates can be expected to vary from the complete-count results, because they are subject to two basic types of error - sampling and nonsampling. The sampling error in the data arises from the selection of persons and housing units to be included in the sample. The non-sampling error, which affects both sample and complete-count data, is the result of all other errors that may occur during the collection and processing phases of the census. For a more detailed discussion of both sampling and non-sampling error, a description of the estimation procedure, and the method of calculating sampling errors, contact the State Data Center. A "User Note" on the topic of sampling error in the EEO data is included on page 2.

USER NOTES

OCCUPATIONAL CATEGORIES

There are 503 occupational categories used in the 1980 Census, but there are 514 categories listed on the EEO file. The additional eleven categories can be explained as follows:

1. In two cases (machine operators, miscellaneous, and not specified and laborers, except construction), these occupations are repeated and crossclassified by industry. This yields eight (8) new categories. These data must be omitted when summing all 514 categories as they represent duplications. The following categories, which are industry tabulations, should be omitted when totaling occupational categories.

777,779	Machine Operators, Miscellaneous and Not Specified, Nondurables, Industry
	Machine Operators, Miscellaneous and Not Specified, Durables, Industry
	Machine Operators, Miscellaneous and Not Specified, Nonmanufacturing, Industry
889	Laborers, Except Construction, Nondurables, Industry
	Laborers, Except Construction, Durables, Industry
	Laborers, Except Construction, Transportion, Communication, Utilities
	Laborers, Except Construction, Wholesale and Retail Trade
	Laborers, Except Construction, Other Industries

2. In two cases (managers and administrators, not elsewhere classified and supervisors and proprietors, sales occupations), these occupations in the census classification scheme are further divided into "salaried" and "self-employed," yielding a total of two (2) additional categories. These counts of occupations are not duplicated but rather subdivided.

019	Managers and Administrators, N.E.C. Salaried
019	Managers and Administrators, N.E.C. Self-Employed
243	Supervisors and Proprietors, Sales Occupations; Salaried
243	Supervisors and Proprietors, Sales, Occupations; Self-Employed

3. The category #919, "Unemployed, no civilian work experience since 1975" is not an occupational category.

SAMPLING ERRORS

The data presented in this report are estimates and, as such, are subject to error. Because occupation was asked of only approximately 1 in every 6 households in the enumeration process, statistical methods had to be employed to estimate the occupation of those persons who were not asked. The estimates which appear on the EEO file were obtained from an estimation procedure which resulted in the assignment of a weight to each sample person or housing unit record.

A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges which are intended to bracket the "true value" of the measure being estimated. The more confidence one wishes to place in the possibility that the "true value" is contained in such an interval, the wider the interval must be. A "95 percent confidence figure implies that if all possible samples that could result under the 1980 Census sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then approximately 95 percent of the intervals (from two estimated standard errors below the estimate to two estimated standard errors above the estimate) would contain the "true value".

Take, for example, the weighted estimate of 620 veterinarians in the State. Based solely on the size of the sample and the "estimate" of 620, one would be approximately 95 percent confident that the actual number of veterinarians in the state is between 498 and 743. This provides a general indication of the error that may be involved in the 620 estimate due to the fact that it is extrapolated from a sample of the population. (This does not take account of nonsampling errors and other problems, such as self-misclassification according to occupation or multiple occupations for an individual.)

Similarly, one could say with around 95 percent confidence that the number of black veterinarians in North Carolina lies between 10 and 84. The estimate of black veterinarians from which the confidence interval was calculated was 47.

Generally for the EEO sample, the larger the estimate, the smaller the length of the 95 percent confidence interval as a percentage of the estimated value. For example, those who listed their occupation as "farmers, except horticultural" were estimated at 36,927. The 95 percent confidence interval for this estimate is 35,985 to 37,869.

For a more detailed discussion of the weighting scheme and the calculation of standard errors in the EEO file, consult Census of Population, 1980: Equal Employment Opportunity Special File Technical Documentation or contact the North Carolina State Data Center.

NONSAMPLING ERRORS

The nonsampling error, which affects both sample and complete-count data, is the result of all errors other than sampling errors. Nonsampling errors may occur during the collection or processing phases of the census. Primary sources of nonsampling error are census undercoverage, respondent and enumerator error, processing error, nonresponse, and editing of unacceptable data. A detailed discussion of nonsampling error is provided in the technical documentation for the EEO Special File. Contact the North Carolina State Data Center for further information.

OTHER LIMITATIONS OF THE DATA

For employed persons with two or more jobs, only the job at which they worked the greatest number of hours during the reference week is used to tabulate occupation. Thus, anyone who classifies himself as a carpenter may also be working at another job or may not have worked as a carpenter for the whole year.

Race was reported by self-identification of respondents.

The data on labor force status relate to the calendar week preceding the week in which the respondents completed their questionnaires. The reference week is not the same for all respondents because not all persons were enumerated during the same week. Since Census Day was April 1, 1980, the reference week for many respondents was the last week of March.

UNIVERSE OF DATA

While much of the census data dealing with occupation (eg., Summary Tape File 3) restricts its universe to employed civilians 16 years old and over, the EEO File's universe is the entire civilian labor force 16 years old and over. It includes those persons unemployed with no civilian work experience since 1975 as a separate category. Counts within each occupation are for the "recent - experienced" civilian labor force (persons employed in 1980 or unemployed having civilian work experience between 1975 and 1980).

SUPPRESSION

In order to prevent disclosure of census information on particular individuals, data items are often suppressed. Records for the various race/Hispanic groups on the EEO file are subject to suppression. The suppression rule states that all occupational data for a specific race/Hispanic category will appear only when there are 30 or more persons in that category living in the geographic area. In some cases, complementary suppression is applied to prevent the derivation of suppressed data by subtraction. Suppression does not occur on the North Carolina state level data, but it does surface at lower geographical levels. If all occupational categories show a value of zero for a particular race/Spanish origin category, suppression may be suspected. Often, programmers of the data indicate suppressed values by "SUPP".

ABBREVIATIONS USED IN TABLES

The following abbreviations have been used in the tables:

admin. - administrative
comm. - communication
execs. - executives
hshld. - household
misc. - miscellaneous
n.e.c. - not elsewhere classified
oper. - operator
spec. - specified
trans. - transportation
- number
& - and

DATA AVAILABILITY

The EEO file is maintained by both the North Carolina State Data Center and the North Carolina Employment Security Commission. Data users who need further information on occupational data from the 1980 Census at the State, SMSA, or city level (cities of 50,000 or more), education data for the civilian labor force, more discussion of definitions and error estimation, or a copy of the machine readable data should contact:

State Data Center
Office of State Budget and Management
116 West Jones Street
Raleigh, North Carolina 27611
(919)/733-7061

Users who need current estimates of the labor force data as well as county level, SMSA level, or State level census summary data on occupation, should contact the North Carolina Labor Market Division*.

*The Labor Market Information Division of the Employment Security Commission of North Carolina prepares packets titled Manpower Information for Affirmative Action Programs for the state, its SMSA's, and all counties. Each packet consists of four basic tables and is based, in parts on 1980 Census data. The first table contains 1980 population data by race and sex as well as civilian labor force participation rates. The second table gives estimates of civilian labor force data by race and sex for a current year. Another table provides registered job applicant data by sex and minority status for eight major occupational groups. Finally, there is a listing of the occupations of the civilian labor force by sex and race. This table of 1980 Census data contains a total of seventy-eight occupational categories (including nine basic groups for seven race-hispanic categories and total minority). Also, greater occupational detail is available upon request.

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DETAILED OCCUPATIONS OF THE NORTH CAROLINA CIVILIAN LABOR FORCE BY SEX AND BY RACE
1980

Census Code	Occupational Category	Total a/		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Managerial and Professional Specialty Occupations (504,402) b/								
	Executive, Administrative, and Managerial (231,038)								
003	Legislators	100	30	83	19	11	11	6	0
004	Chief Execs. & General Administrators, Public Administration	570	263	457	215	113	48	0	0
005	Administrators and Officials, Public Administration	3433	1794	3137	1601	265	193	31	0
006	Administrators, Protective Services	744	63	676	56	60	7	8	0
007	Financial Managers	6145	2590	5818	2491	306	92	15	7
008	Personnel and Labor Relations Managers	3801	1721	3526	1550	228	165	15	6
009	Purchasing Managers	1019	265	962	263	57	2	0	0
013	Managers, Marketing, Advertising, Public Relations	11246	2540	11037	2349	197	180	0	C
014	Administrators, Education and Related Fields	5515	3856	4544	2894	907	873	40	75
015	Managers, Medicine and Health	1340	1337	1187	1114	134	215	0	0
016	Managers, Properties and Real Estate	1197	846	1102	691	95	149	0	6
017	Postmasters and Mail Superintendents	440	308	419	305	15	3	6	0
018	Funeral Directors	1243	106	996	61	244	45	3	0
(019)	Managers and Administrators, N.E.C.; Salaried	84093	29609	79401	26597	4099	2673	265	193
(019)	Managers and Administrators, N.E.C.; Self-Employed	9220	3326	8716	3121	389	143	33	22
023	Accountants and Auditors	10799	8212	10160	7522	554	624	24	28
024	Underwriters	52	108	52	108	0	0	0	0
025	Other Financial Officers	4849	4208	4536	3903	305	276	0	17
026	Management Analysts	1062	478	1048	445	14	23	0	2
027	Personnel, Training, and Labor Relations Specialists	5185	3697	4452	2883	684	770	36	36
028	Purchasing Agents and Buyers, Farm Products	354	50	340	50	14	0	0	0
029	Buyers, Wholesale and Retail, Except Farm Products	2092	1274	2015	1204	66	65	5	5
033	Purchasing Agents and Buyers, N.E.C.	2973	1135	2861	1038	102	97	10	0
034	Business and Promotion Agents	309	135	302	125	7	10	0	0
035	Construction Inspectors	1135	53	1078	29	51	24	6	0
036	Inspectors and Compliance Officers, Except Construction	2809	522	2587	416	196	82	26	24
037	Management Related Occupations, N.E.C.	412	375	386	329	19	46	7	0
	Professional Specialty (273,364)								
043	Architects	1821	88	1766	68	45	20	0	0
044	Aerospace Engineers	168	7	158	7	10	0	0	0
045	Metallurgical and Materials Engineers	131	20	124	20	0	0	0	0
046	Mining Engineers	37	0	31	0	0	0	6	0
047	Petroleum Engineers	15	6	15	6	0	0	0	0
048	Chemical Engineers	909	50	857	44	11	0	13	0
049	Nuclear Engineers	214	0	214	0	0	0	0	0
053	Civil Engineers	3193	78	2940	65	146	8	0	5
054	Agricultural Engineers	72	0	70	0	2	0	0	0
055	Electrical and Electronic Engineers	5276	314	4884	294	217	20	0	0
056	Industrial Engineers	4276	580	4097	560	126	20	6	0
057	Mechanical Engineers	3138	53	2938	38	109	15	0	0
058	Marine and Naval Architects	161	0	150	0	11	0	0	0
059	Engineers, N.E.C.	3651	186	3370	154	177	26	6	0
063	Surveyors and Mapping Scientists	1156	14	1107	14	27	0	22	0
064	Computer Systems Analysts & Scientists	1785	567	1684	478	76	87	0	0
065	Operations and Systems Researchers and Analysts	927	337	888	312	31	6	0	7
066	Actuaries	42	8	42	6	0	0	0	0

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Managerial and Professional Specialty Occupations								
	Professional Specialty - Continued								
067	Statisticians	391	260	369	217	7	43	0	0
068	Mathematical Scientists, N.E.C.	28	19	21	7	7	12	0	0
069	Physicists and Astronomers	217	23	191	23	16	0	2	0
073	Chemists, Except Biochemists	1734	548	1632	447	41	82	0	0
074	Atmospheric and Space Scientists	179	16	167	16	12	0	0	0
075	Geologists and Geodesists	212	32	190	25	15	7	0	0
076	Physical Scientists, N.E.C.	144	47	144	6	0	41	0	0
077	Agricultural and Food Scientists	446	94	415	72	31	22	0	0
078	Biological and Life Scientists	612	299	570	281	16	16	0	0
079	Forestry and Conservation Scientists	950	122	895	122	46	0	9	0
083	Medical Scientists	280	165	272	156	8	9	0	0
084	Physicians	7816	1131	7268	973	244	110	17	6
085	Dentists	2149	215	1999	198	122	17	13	0
086	Veterinarians	495	125	448	125	47	0	0	0
087	Optometrists	462	36	460	36	2	0	0	0
088	Podiatrists	67	14	67	7	0	7	0	0
089	Health Diagnosing Practitioners, N.E.C.	254	96	222	96	32	0	0	0
095	Registered Nurses	1039	26102	900	23391	132	2534	0	83
096	Pharmacists	2697	977	2627	887	61	81	3	0
097	Dietitians	190	1865	105	1010	85	798	0	33
098	Inhalation Therapists	375	515	323	445	38	62	7	8
099	Occupational Therapists	12	182	12	165	0	17	0	0
103	Physical Therapists	225	734	183	668	42	52	0	6
104	Speech Therapists	56	670	56	621	0	49	0	0
105	Therapists, N.E.C.	339	560	274	475	60	85	0	0
106	Physicians' Assistants	339	344	325	284	14	52	0	0
113	Earth,Environmental,&Marine Science Teachers,Postsecondary	29	6	29	6	0	0	0	0
114	Biological Science Teachers, Postsecondary	188	89	165	81	15	6	0	2
115	Chemistry Teachers, Postsecondary	159	35	149	35	0	0	0	0
116	Physics Teachers, Postsecondary	124	8	110	8	0	0	0	0
117	Natural Science Teachers, Postsecondary, N.E.C.	6	6	6	6	0	0	0	0
118	Psychology Teachers, Postsecondary	114	37	101	37	13	0	0	0
119	Economics Teachers, Postsecondary	93	45	93	45	0	0	0	0
123	History Teachers, Postsecondary	114	60	107	45	7	15	0	0
124	Political Science Teachers, Postsecondary	13	0	13	0	0	0	0	0
125	Sociology Teachers, Postsecondary	54	8	54	8	0	0	0	0
126	Social Science Teachers, Postsecondary, N.E.C.	48	12	43	12	0	0	0	0
127	Engineering Teachers, Postsecondary	176	105	164	79	6	26	0	0
128	Mathematical Science Teachers, Postsecondary	305	225	260	174	26	43	7	2
129	Computer Science Teachers, Postsecondary	27	6	15	0	0	6	0	0
133	Medical Science Teachers, Postsecondary	148	55	148	55	0	0	0	0
134	Health Specialties Teachers, Postsecondary	84	665	78	559	6	106	0	0
135	Business, Commerce, & Marketing Teachers, Postsecondary	84	214	75	203	9	11	0	0
136	Agriculture and Forestry Teachers, Postsecondary	62	19	35	13	27	6	0	0
137	Art, Drama, and Music Teachers, Postsecondary	357	477	317	461	34	16	0	0
138	Physical Education Teachers, Postsecondary	156	72	113	70	41	2	0	0
139	Education Teachers, Postsecondary	50	49	31	43	14	6	0	0
143	English Teachers, Postsecondary	311	430	292	380	19	41	0	0

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Managerial and Professional Specialty Occupations								
	Professional Specialty - Continued								
144	Foreign Language Teachers, Postsecondary	104	156	104	123	0	26	0	0
145	Law Teachers, Postsecondary	84	27	77	27	7	0	0	0
146	Social Work Teachers, Postsecondary	0	35	0	27	0	8	0	0
147	Theology Teachers, Postsecondary	86	20	79	20	7	0	0	0
148	Trade and Industrial Teachers, Postsecondary	100	79	99	72	1	7	0	0
149	Home Economics Teachers, Postsecondary	19	50	19	40	0	10	0	0
153	Teachers, Postsecondary, N.E.C.	25	23	25	18	0	5	0	0
154	Postsecondary Teachers, Subject Not Specified	7974	5719	7068	4709	611	896	33	27
155	Teachers, Prekindergarten and Kindergarten	138	5429	76	4291	62	1064	0	61
156	Teachers, Elementary School	9739	52062	7444	40375	2174	11140	75	418
157	Teachers, Secondary School	6686	17404	5504	13814	1115	3324	40	224
158	Teachers, Special Education	223	599	165	474	47	125	11	0
159	Teachers, N.E.C.	2708	5208	2370	4439	324	699	0	31
163	Counselors, Educational, and Vocational	1902	3316	1462	2531	419	762	21	23
164	Librarians	735	3763	647	3011	81	690	7	23
165	Archivists and Curators	91	128	76	114	15	14	0	0
166	Economists	802	391	765	301	30	83	7	0
167	Psychologists	879	717	810	617	69	92	0	8
168	Sociologists	17	27	17	27	0	0	0	0
169	Social Scientists, N.E.C.	132	78	122	78	10	0	0	0
173	Urban Planners	240	40	195	40	45	0	0	0
174	Social Workers	2682	6573	2099	4811	540	1647	34	107
175	Recreation Workers	154	224	101	132	47	92	6	0
176	Clergy	10060	454	9257	371	767	78	19	0
177	Religious Workers, N.E.C.	447	782	381	711	52	55	14	6
178	Lawyers	5931	763	5605	618	268	145	12	0
179	Judges	739	97	647	79	92	18	0	0
183	Authors	311	202	311	179	0	23	0	0
184	Technical Writers	717	378	654	313	46	60	0	0
185	Designers	3448	4024	3171	3800	194	195	23	5
186	Musicians and Composers	1571	1081	1396	1033	136	47	18	1
187	Actors and Directors	446	266	397	218	40	36	9	0
188	Painters,Sculptors,Craft-Artists,Artist Printmakers	877	1110	858	1054	12	40	0	0
189	Photographers	1421	507	1271	461	130	46	0	0
193	Dancers	35	150	35	92	0	44	0	8
194	Artists, Performers, and Related Workers, N.E.C.	524	294	437	256	75	38	0	0
195	Editors and Reporters	1644	1586	1521	1462	120	102	3	15
197	Public Relations Specialists	940	731	905	630	35	96	0	0
198	Announcers	1301	250	1101	193	194	52	6	0
199	Athletes	951	234	826	228	125	6	0	0
	Technical, Sales, and Administrative Support (694,946)								
	Technicians and Related Support (68,967)								
203	Clinical Laboratory Technologists and Technicians	1825	5170	1310	3998	493	1097	0	7
204	Dental Hygienists	16	1447	2	1417	14	25	0	0
205	Health Record Technologists and Technicians	43	273	33	239	10	34	0	0
206	Radiologic Technicians	394	1903	314	1748	80	146	0	9
207	Licensed Practical Nurses	295	9514	234	6825	59	2556	0	104
208	Health Technologists and Technicians, N.E.C.	1786	2503	1336	2081	380	398	6	0

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Technical, Sales, and Administrative Support								
	Technicians and Related Support - Continued								
213	Electrical and Electronic Technicians	3684	407	3428	328	236	74	15	0
214	Industrial Engineering Technicians	353	152	337	143	16	9	0	0
215	Mechanical Engineering Technicians	220	28	193	28	27	0	0	0
216	Engineering Technicians, N.E.C.	4492	3183	3984	2630	414	522	49	13
217	Drafting Occupations	4219	997	3914	922	253	65	12	0
218	Surveying and Mapping Technicians	1585	161	1506	141	73	20	0	0
223	Biological Technicians	722	901	514	789	174	112	12	0
224	Chemical Technicians	1077	525	881	408	176	117	0	0
225	Science Technicians, N.E.C.	936	712	830	545	101	167	0	0
226	Airplane Pilots and Navigators	826	33	801	33	25	0	0	0
227	Air Traffic Controllers	539	80	508	62	31	18	0	0
228	Broadcast Equipment Operators	766	511	680	412	74	90	12	9
229	Computer Programmers	3854	1849	3485	1543	331	259	13	0
233	Tool Programmers, Numerical Control	112	45	112	45	0	0	0	0
234	Legal Assistants	143	983	130	896	13	87	0	0
235	Technicians, N.E.C.	6858	2845	6114	2330	538	424	32	7
	Sales Occupations (241,291)								
(243)	Supervisors & Proprietors, Sales Occupations, Salaried	18030	6381	16989	5780	929	517	70	40
(243)	Supervisors & Proprietors, Sales Occupations, Self-employed	9561	2887	8998	2643	423	183	90	39
253	Insurance Sales Occupations	11368	3504	10543	3129	733	356	47	6
254	Real Estate Sales Occupations	6211	4488	6052	4406	149	70	10	0
255	Securities and Financial Services Sales Occupations	1100	154	1086	140	9	14	0	0
256	Advertising and Related Sales Occupations	1249	893	1213	859	36	29	0	5
257	Sales Occupations, Other Business Services	4448	2050	4280	1890	149	145	14	3
258	Sales Engineers	636	70	630	70	0	0	0	0
259	Sales Representatives, Mining, Manufacturing, & Wholesale	29303	4269	28480	3957	706	297	56	7
263	Sales Workers, Motor Vehicles and Boats	8021	501	7620	482	380	14	21	0
264	Sales Workers, Apparel	1983	8792	1758	7846	202	841	10	28
265	Sales Workers, Shoes	857	1808	718	1629	139	151	0	9
266	Sales Workers, Furniture and Home Furnishings	2462	1365	2316	1328	128	25	18	6
267	Sales Workers; Radio, TV, Hi-Fi, and Appliances	1865	795	1684	673	169	111	12	4
268	Sales Workers, Hardware and Building Supplies	3980	835	3818	778	149	39	13	18
269	Sales Workers, Parts	5126	296	4918	257	199	39	9	0
274	Sales Workers, Other Commodities	11146	29568	10063	26112	984	3182	62	142
275	Sales Counter Clerks	696	1767	637	1550	47	188	6	13
276	Cashiers	6862	39952	5815	33280	969	6074	40	350
277	Street and Door-to-Door Sales Workers	709	2590	678	2317	22	234	9	7
278	News Vendors	1344	784	1184	727	149	45	3	7
283	Demonstrators, Promoters, and Models, Sales	66	108	62	102	4	6	0	0
284	Auctioneers	203	36	203	36	0	0	0	0
285	Sales Support Occupations, N.E.C.	103	69	89	56	14	13	0	0
	Admin. Support Occupations, Including Clerical (384,688)								
303	Supervisors, General Office	6083	5843	5281	4990	722	786	62	46
304	Supervisors, Computer Equipment Operators	394	101	360	101	34	0	0	0
305	Supervisors, Financial Records Processing	1162	988	1125	929	19	59	0	0
306	Chief Communications Operators	845	452	807	401	38	51	0	0
307	Supervisors; Distribution, Scheduling, and Adjusting Clerks	2993	632	2540	535	442	85	11	6
308	Computer Operators	3121	5344	2643	4516	427	775	26	31

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Technical, Sales, and Administrative Support								
	Admin. Support Occupations, Including Clerical - Continued								
309	Peripheral Equipment Operators	220	400	168	340	44	60	8	0
313	Secretaries	1394	92831	1250	84819	144	7456	0	379
314	Stenographers	69	1085	69	918	0	167	0	0
315	Typists	229	9190	152	7298	58	1790	12	64
316	Interviewers	853	2435	631	1988	213	411	1	34
317	Hotel Clerks	408	1101	393	1032	15	48	0	15
318	Transportation Ticket and Reservation Agents	883	1397	704	1163	156	223	12	0
319	Receptionists	471	9944	394	8726	77	1129	0	47
323	Information Clerks, N.E.C.	301	889	283	735	18	138	0	7
325	Classified-Ad Clerks	140	208	113	195	27	9	0	4
326	Correspondence Clerks	80	278	70	246	10	32	0	0
327	Order Clerks	1860	4051	1565	3386	289	650	6	11
328	Personnel Clerks, Except Payroll and Timekeeping	203	1493	135	1315	52	167	16	6
329	Library Clerks	633	2819	478	2133	135	638	0	31
335	File Clerks	1504	4722	1272	3692	221	984	11	41
336	Records Clerks	305	2644	260	2257	45	374	0	0
337	Bookkeepers, Accounting, and Auditing Clerks	3526	35419	3263	33445	232	1807	13	83
338	Payroll and Timekeeping Clerks	326	3467	279	3244	39	204	0	6
339	Billing Clerks	252	2370	187	2120	60	245	0	0
343	Cost and Rate Clerks	720	1446	680	1246	32	182	8	0
344	Billing, Posting, and Calculating Machine Operators	87	920	83	693	4	206	0	7
345	Duplicating Machine Operators	108	151	68	132	36	19	0	0
346	Mail Preparing and Paper Handling Machine Operators	82	114	64	85	18	29	0	0
347	Office Machine Operators, N.E.C.	131	454	104	360	21	82	6	12
348	Telephone Operators	416	5450	295	4481	107	928	0	41
349	Telegraphers	76	67	69	58	7	9	0	0
353	Communications Equipment Operators, N.E.C.	63	104	40	99	23	0	0	5
354	Postal Clerks, Except Mail Carriers	3391	1289	2650	1034	721	246	7	9
355	Mail Carriers, Postal Service	4662	522	4080	520	560	2	15	0
356	Mail Clerks, Except Postal Service	1586	1277	1064	940	512	324	10	9
357	Messengers	1064	364	794	274	270	90	0	0
359	Dispatchers	1494	413	1344	340	141	71	9	2
363	Production Coordinators	3480	2837	3049	2459	398	356	33	15
364	Traffic, Shipping, and Receiving Clerks	13713	4768	10297	3897	3297	777	90	73
365	Stock and Inventory Clerks	10550	5509	8390	4516	2050	953	78	19
366	Meter Readers	984	133	651	118	318	15	9	0
368	Weighers, Measurers, and Checkers	1752	1157	1337	792	375	348	34	11
369	Samplers	63	45	63	22	0	23	0	0
373	Expediters	976	1528	837	1284	122	226	17	8
374	Material Recording, Scheduling, and Dist. Clerks, N.E.C.	178	658	151	516	27	136	0	0
375	Insurance Adjusters, Examiners, and Investigators	1358	1767	1276	1476	76	291	6	0
376	Investigators and Adjustors, Except Insurance	2202	3549	1926	2972	266	530	3	35
377	Eligibility Clerks, Social Welfare	143	1420	128	1136	15	277	0	0
378	Bill and Account Collectors	878	1223	769	1045	103	159	6	19
379	General Office Clerks	7508	37328	6413	31975	1032	5057	34	208
383	Bank Tellers	293	10673	221	9051	66	1530	6	56
384	Proofreaders	62	436	55	398	7	38	0	0
385	Data-Entry Keyers	541	7257	408	5658	127	1522	0	21

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Technical, Sales, and Administrative Support								
	Admin. Support Occupations, Including Clerical - Continued								
386	Statistical Clerks	735	1717	644	1396	86	321	0	0
387	Teachers' Aides	188	3586	101	2349	78	1102	0	103
389	Administrative Support Occupations, N.E.C.	2933	5751	2538	4604	351	1091	22	32
	Service Occupations (314,848)								
	Private Households (21,489)								
403	Launderers and Ironers	24	33	16	10	8	23	0	0
404	Cooks, Private Household	31	425	19	105	12	320	0	0
405	Housekeepers and Butlers	76	1498	30	246	46	1242	0	10
406	Child Care Workers, Private Household	110	3494	103	2403	7	1027	0	28
407	Private Household Cleaners and Servants	746	15052	258	1942	488	12986	0	105
	Protective Service (32,507)								
413	Supervisors, Firefighting, and Fire Prevention Occupations	418	0	411	0	5	0	2	0
414	Supervisors, Police and Detectives	885	30	789	30	89	0	7	0
415	Supervisors, Guards	281	48	233	25	42	23	0	0
416	Fire Inspection and Fire Prevention Occupations	648	85	599	85	49	0	0	0
417	Firefighting Occupations	3206	76	2717	62	465	14	12	0
418	Police and Detectives, Public Service	7538	587	6346	436	1091	122	75	29
423	Sheriffs, Bailiffs, and Other Law Enforcement Officers	1729	200	1497	174	198	26	34	0
424	Correctional Institution Officers	3276	319	2345	183	866	136	59	0
425	Crossing Guards	102	332	75	250	27	82	0	0
426	Guards and Police, Except Public Service	10744	1328	8850	918	1780	404	96	6
427	Protective Service Occupations, N.E.C.	465	210	386	185	79	25	0	0
	Service Occupations Except Protective & Hshld. (260,852)								
433	Supervisors, Food Preparation and Service Occupations	1517	2493	1094	2078	385	361	7	10
434	Bartenders	1378	1029	1194	935	157	41	12	0
435	Waiters and Waitresses	2647	26109	1975	22804	619	2708	14	226
436	Cooks, Except Short Order	14823	22715	9664	13087	4787	9229	128	273
437	Short-Order Cooks	577	389	483	198	80	155	8	31
438	Food Counter, Fountain, and Related Occupations	670	2814	531	2328	123	447	11	17
439	Kitchen Workers, Food Preparation	382	2055	302	1200	73	797	0	24
443	Waiters'/Waitresses' Assistants	2449	2005	1701	1368	724	616	5	14
444	Miscellaneous Food Preparation Occupations	5243	9926	2977	6048	2169	3624	46	108
445	Dental Assistants	46	3059	31	2853	15	194	0	12
446	Health Aides, Except Nursing	983	4435	670	3160	300	1246	13	16
447	Nursing Aides, Orderlies, and Attendants	5627	29414	2833	16840	2703	12296	41	199
448	Supervisors, Cleaning and Building Service Workers	1734	610	1233	272	499	338	2	0
449	Maids and Housemen	3566	13474	1541	3971	2007	9260	6	165
453	Janitors and Cleaners	39624	11921	21419	4136	17712	7533	430	201
454	Elevator Operators	212	67	113	5	99	62	0	0
455	Pest Control Occupations	1224	71	1075	71	130	0	15	0
456	Supervisors, Personal Service Occupations	202	219	170	115	26	104	0	0
457	Barbers	2642	244	1975	182	624	49	43	5
458	Hairdressers and Cosmetologists	987	14160	806	12727	148	1228	13	96
459	Attendants, Amusement, and Recreation Facilities	1105	492	838	411	252	81	15	0
463	Guides	155	408	99	341	50	57	6	10
464	Ushers	209	223	190	184	12	32	0	7
465	Public Transportation Attendants	147	323	117	303	22	20	0	0
466	Baggage Porters and Bellhops	339	32	134	18	205	14	0	0

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Service Occupations								
	Service Occupations Except Protective & Hshld. - Continued								
467	Welfare Service Aides	163	631	126	283	31	338	6	10
468	Child Care Workers, Except Private Household	1088	17486	807	12886	275	4178	6	352
469	Personal Service Occupations, N.E.C.	1129	3180	605	1868	487	1256	12	29
	Farming, Forestry, and Fishing (94,461)								
473	Farmers, Except Horticultural	33466	3461	30107	2923	2945	488	385	50
474	Horticultural Specialty Farmers	411	129	384	129	27	0	0	0
475	Managers, Farms, Except Horticultural	3757	539	2890	299	793	212	53	22
476	Managers, Horticultural Specialty Farms	588	140	447	128	137	12	4	0
477	Supervisors, Farm Workers	1331	802	1061	570	257	226	13	6
479	Farm Workers	21386	8021	11190	3634	9478	4116	586	225
483	Marine Life Cultivation Workers	6	0	6	0	0	0	0	0
484	Nursery Workers	356	385	277	347	70	24	0	0
485	Supervisors, Related Agricultural Occupations	489	38	436	36	42	2	11	0
486	Groundskeepers and Gardeners, Except Farm	7616	762	5218	497	2263	257	116	8
487	Animal Caretakers, Except Farm	490	681	425	660	65	21	0	0
488	Graders and Sorters, Agricultural Products	120	299	70	149	50	150	0	0
489	Inspectors, Agricultural Products	31	0	15	0	7	0	9	0
494	Supervisors, Forestry and Logging Workers	253	0	221	0	25	0	7	0
495	Forestry Workers, Except Logging	511	69	378	55	112	11	14	3
496	Timber Cutting and Logging Occupations	5126	203	3261	84	1679	112	179	7
497	Captains and Other Officers, Fishing Vessels	172	19	170	11	2	8	0	0
498	Fishers	2608	143	2405	106	171	37	26	0
499	Hunters and Trappers	47	6	41	6	0	0	6	0
	Precision Production, Craft, and Repair Occupations (378,298)								
503	Supervisors, Mechanics and Repairers	3630	126	3415	121	177	5	32	0
505	Automobile Mechanics, Except Apprentices	22183	503	19029	394	2928	96	192	13
506	Automobile Mechanic Apprentices	87	0	81	0	6	0	0	0
507	Bus, Truck, and Stationary Engine Mechanics	4155	15	3608	11	470	4	77	0
508	Aircraft Engine Mechanics	1229	30	1006	20	215	10	8	0
509	Small Engine Repairers	849	38	776	38	53	0	14	0
514	Automobile Body and Related Repairers	6408	71	5695	63	638	8	52	0
515	Aircraft Mechanics, Except Engine	109	44	109	37	0	7	0	0
516	Heavy Equipment Mechanics	3001	41	2575	36	404	5	17	0
517	Farm Equipment Mechanics	771	29	718	29	32	0	21	0
518	Industrial Machinery Repairers	31066	1700	26557	1401	4163	289	299	10
519	Machinery Maintenance Occupations	1071	97	806	81	265	7	0	9
523	Electronic Repairers,Communications & Industrial Equipment	3952	157	3593	146	326	11	14	0
525	Data Processing Equipment Repairers	548	92	514	81	34	11	0	0
526	Household Appliance and Power Tool Repairers	1736	97	1646	63	84	34	6	0
527	Telephone Line Installers and Repairers	1583	69	1510	69	64	0	9	0
529	Telephone Installers and Repairers	6107	804	5565	656	516	146	15	0
533	Miscellaneous Electrical and Electronic Equipment Repairers	651	128	557	107	94	21	0	0
534	Heating, Air Conditioning, and Refrigeration Mechanics	4500	26	4085	26	369	0	39	0
535	Camera, Watch, and Musical Instrument Repairers	834	225	806	184	28	28	0	10
536	Locksmiths and Safe Repairers	346	39	332	32	8	7	0	0
538	Office Machine Repairers	652	69	599	52	53	17	0	0

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Precision Production, Craft, and Repair Occupations - Continued								
539	Mechanical Controls and Valve Repairers	522	11	405	11	111	0	6	0
543	Elevator Installers and Repairers	322	8	303	0	13	8	0	0
544	Millwrights	1891	171	1717	107	142	64	22	0
547	Specified Mechanics and Repairers, N.E.C.	8593	753	7183	514	1331	227	65	12
549	Not Specified Mechanics and Repairers	5142	411	4282	361	793	48	67	2
553	Supervisors; Brickmasons, Stonemasons, and Tile Setters	63	0	39	0	24	0	0	0
554	Supervisors, Carpenters and Related Workers	556	6	524	6	30	0	2	0
555	Supervisors, Electricians & Power Transmission Installers	744	6	710	6	8	0	19	0
556	Supervisors; Painters, Paperhangers, & Plasterers	157	19	131	10	21	9	0	0
557	Supervisors; Plumbers, Pipefitters, and Steamfitters	269	12	258	12	0	0	4	0
558	Supervisors, N.E.C.	18014	421	16403	357	1392	57	188	0
563	Brickmasons and Stonemasons, Except Apprentices	8372	90	5249	56	2881	34	228	0
564	Brickmason and Stonemason Apprentices	77	0	54	0	23	0	0	0
565	Tile Setters, Hard and Soft	858	8	591	8	243	0	24	0
566	Carpet Installers	2102	55	1878	45	192	10	32	0
567	Carpenters, Except Apprentices	37614	706	32847	533	3751	148	962	17
569	Carpenter Apprentices	46	0	42	0	4	0	0	0
573	Drywall Installers	2258	98	1794	39	159	46	305	13
575	Electricians, Except Apprentices	15465	460	14126	331	1091	124	207	5
576	Electrician Apprentices	243	12	243	12	0	0	0	0
577	Electrical Power Installers and Repairers	2780	55	2421	43	317	12	42	0
579	Painters, Construction and Maintenance	12058	742	9755	537	2006	176	242	21
583	Paperhangers	314	25	291	25	23	0	0	0
584	Plasterers	412	43	86	35	317	8	9	0
585	Plumbers,Pipefitters,and Steamfitters, Except Apprentices	10256	140	8952	103	1172	30	130	7
587	Plumber,Pipefitter, and Steamfitter Apprentices	71	3	62	3	9	0	0	0
588	Concrete and Terrazzo Finishers	1844	51	646	31	1171	20	27	0
589	Glaziers	703	60	650	43	42	17	11	0
593	Insulation Workers	1452	115	1227	86	213	29	12	0
594	Paving, Surfacing, and Tamping Equipment Operators	290	15	210	15	80	0	0	0
595	Roofers	2927	49	1884	23	884	22	56	4
596	Sheetmetal Duct Installers	728	26	678	17	42	9	8	0
597	Structural Metal Workers	1535	46	1260	45	162	1	113	0
598	Drillers, Earth	396	33	322	9	71	24	3	0
599	Construction Trades, N.E.C.	3688	59	2341	41	1088	16	241	0
613	Supervisors, Extractive Occupations	445	17	406	17	39	0	0	0
614	Drillers, Oil Well	199	0	177	0	22	0	0	0
615	Explosives Workers	60	0	59	0	1	0	0	0
616	Mining Machine Operators	427	18	323	13	96	5	8	0
617	Mining Occupations, N.E.C.	261	17	210	5	51	12	0	0
633	Supervisors, Production Occupations	56016	11776	49200	9867	6360	1748	374	125
634	Tool and Die Makers, Except Apprentices	1792	143	1713	88	73	55	0	0
635	Tool and Die Maker Apprentices	48	0	48	0	0	0	0	0
636	Precision Assemblers, Metal	157	80	132	65	25	15	0	0
637	Machinists, Except Apprentices	8891	780	7641	395	1157	374	39	11

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Precision Production, Craft, and Repair Occupations - Continued								
639	Machinist Apprentices	77	6	77	6	0	0	0	0
643	Boilermakers	401	8	344	0	40	8	17	0
644	Precision Grinders, Fitters, and Tool Sharpeners	354	55	342	47	7	8	5	0
645	Patternmakers and Model Makers, Metal	142	103	132	92	10	6	0	5
646	Lay-Out Workers	293	171	200	143	93	28	0	0
647	Precious Stones and Metals Workers (Jewelers)	231	109	207	109	17	0	7	0
649	Engravers, Metal	190	138	172	120	13	18	0	0
653	Sheet Metal Workers, Except Apprentices	3157	51	2865	49	236	2	43	0
654	Sheet Metal Worker Apprentices	21	0	21	0	0	0	0	0
655	Miscellaneous Precision Metal Workers	56	26	56	26	0	0	0	0
656	Patternmakers and Model Makers, Wood	40	5	40	5	0	0	0	0
657	Cabinet Makers and Bench Carpenters	2940	656	2621	496	279	160	32	0
658	Furniture and Wood Finishers	2500	3230	2035	2339	439	860	5	17
659	Miscellaneous Precision Woodworkers	233	134	215	134	18	0	0	0
666	Dressmakers	194	3033	99	2456	74	477	15	39
667	Tailors	1015	859	702	681	276	152	37	16
668	Upholsterers	4887	967	4431	841	439	112	0	0
669	Shoe Repairers	545	322	388	194	135	105	8	16
673	Apparel and Fabric Patternmakers	38	104	38	71	0	33	0	0
674	Miscellaneous Precision Apparel and Fabric Workers	74	163	66	142	8	18	0	0
675	Hand Molders and Shapers, Except Jewelers	430	136	307	116	108	20	8	0
676	Patternmakers, Lay-Out Workers, and Cutters	106	53	100	35	6	18	0	0
677	Optical Goods Workers	555	282	518	266	32	16	0	0
678	Dental Laboratory and Medical Appliance Technicians	579	331	506	284	65	40	8	7
679	Bookbinders	124	166	90	137	34	23	0	0
683	Electrical and Electronic Equipment Assemblers	194	1163	136	993	58	156	0	8
684	Miscellaneous Precision Workers, N.E.C.	940	339	835	254	105	52	0	16
686	Butchers and Meat Cutters	5463	1727	4427	706	995	997	38	19
687	Bakers	954	1118	533	893	409	225	5	0
688	Food Batchmakers	216	188	177	69	39	105	0	7
689	Inspectors, Testers, and Graders	1345	945	1210	663	124	276	0	0
693	Adjusters and Calibrators	34	210	34	157	0	44	0	9
694	Water and Sewage Treatment Plant Operators	962	14	839	14	106	0	17	0
695	Power Plant Operators	503	46	479	46	24	0	0	0
696	Stationary Engineers	1985	162	1769	125	191	29	0	0
699	Miscellaneous Plant and System Operators	926	108	814	70	112	32	0	0
	Operators, Fabricators, and Laborers (754,123)								
	Machine Operators, Assemblers, and Inspectors (468,599)								
703	Lathe and Turning Machine Set-Up Operators	620	43	496	31	118	12	6	0
704	Lathe and Turning Machine Operators	1825	323	1636	258	168	61	8	0
705	Milling and Planing Machine Operators	329	45	283	29	46	16	0	0
706	Punching and Stamping Press Machine Operators	1115	703	929	578	162	125	24	0
707	Rolling Machine Operators	211	104	178	79	28	25	5	0
708	Drilling and Boring Machine Operators	880	594	815	516	65	73	0	5
709	Grinding,Abrading,Buffing, & Polishing Machine Operators	5304	3574	4045	2706	1202	838	52	30
713	Forging Machine Operators	175	24	157	17	18	7	0	0
714	Numerical Control Machine Operators	43	0	28	0	15	0	0	0
715	Misc. Metal,Plastic,Stone,& Glass Working Machine Operators	414	438	346	337	64	94	0	7

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Operators, Fabricators, and Laborers								
	Machine Operators, Assemblers, and Inspectors - Continued								
717	Fabricating Machine Operators, N.E.C.	575	475	430	335	143	135	2	0
719	Molding and Casting Machine Operators	2650	1694	1854	1050	685	613	106	24
723	Metal Plating Machine Operators	575	190	381	154	194	36	0	0
724	Heat Treating Equipment Operators	138	34	118	19	20	15	0	0
725	Miscellaneous Metal & Plastic Processing Machine Operators	290	47	172	36	118	11	0	0
726	Wood Lathe, Routing, and Planing Machine Operators	517	69	421	59	89	10	7	0
727	Sawing Machine Operators	8002	1260	6031	1006	1857	227	91	15
728	Shaping and Joining Machine Operators	463	436	359	293	104	143	0	0
729	Nailing and Tacking Machine Operators	213	118	154	107	59	11	0	0
733	Miscellaneous Woodworking Machine Operators	1315	621	1050	452	250	164	15	5
734	Printing Machine Operators	4328	1984	3609	1580	626	364	20	24
735	Photoengravers and Lithographers	251	195	215	176	36	19	0	0
736	Typesetters and Compositors	427	693	413	660	14	19	0	8
737	Miscellaneous Printing Machine Operators	390	457	349	369	41	68	0	13
738	Winding and Twisting Machine Operators	8146	28978	5955	21071	2112	7518	58	280
739	Knitting,Looping,Taping, and Weaving Machine Operators	6128	15161	4698	11256	1297	3699	117	154
743	Textile Cutting Machine Operators	546	628	407	479	117	143	22	6
744	Textile Sewing Machine Operators	3449	72618	2189	51868	1109	18221	120	1806
745	Shoe Machine Operators	358	1221	293	699	41	442	24	66
747	Pressing Machine Operators	393	3805	147	1263	244	2492	2	43
748	Laundering and Dry Cleaning Machine Operators	1187	2387	669	994	508	1344	5	34
749	Miscellaneous Textile Machine Operators	16293	20936	11350	14526	4672	6118	220	204
753	Cementing and Gluing Machine Operators	1110	1083	766	884	324	169	20	30
754	Packaging and Filling Machine Operators	1653	2452	1056	1746	584	680	7	15
755	Extruding and Forming Machine Operators	752	179	629	138	117	36	6	5
756	Mixing and Blending Machine Operators	6924	919	4562	518	2231	360	114	24
757	Separating,Filtering, and Clarifying Machine Operators	1019	164	794	86	213	71	12	0
758	Compressing and Compacting Machine Operators	782	349	428	287	348	62	6	0
759	Painting and Paint Spraying Machine Operators	3639	1957	2684	1361	920	566	32	25
763	Roasting and Baking Machine Operators, Food	99	17	48	17	51	0	0	0
764	Washing, Cleaning, and Pickling Machine Operators	348	146	214	77	129	69	5	0
765	Folding Machine Operators	495	1811	232	1317	261	437	2	33
766	Furnace, Kiln, and Oven Operators, Except Food	2756	217	1931	118	816	99	5	0
768	Crushing and Grinding Machine Operators	1170	250	732	121	416	117	20	0
769	Slicing and Cutting Machine Operators	6537	4833	4684	3433	1669	1252	161	138
773	Motion Picture Projectionists	359	27	337	27	15	0	0	0
774	Photographic Process Machine Operators	1637	1029	571	793	61	223	0	0
777	Miscellaneous Machine Operators, N.E.C.	19194	13225	13596	9264	5383	3826	140	114
779	Machine Operators, Not Specified	32638	21222	21530	13540	10544	7225	424	359
	Machine Oper.,Misc./Not Spec.,Nondurables Industry*	22486	17401	14716	11493	7415	5553	281	261
	Machine Oper.,Misc./Not Spec.,Durables Industry*	21249	13647	14358	9128	6092	4339	195	155
	Machine Oper.,Misc./Not Spec.,Nonmanufacturing Industry*	8097	3399	5552	2183	2420	1159	88	57
783	Welders and Cutters	14380	1060	11747	803	2448	249	150	8
784	Solderers and Brazers	79	270	58	190	15	69	0	0
785	Assemblers	19830	26646	14776	17840	4721	8124	201	449
786	Hand Cutting and Trimming Occupations	360	348	185	222	175	114	0	12
787	Hand Molding, Casting, and Forming Occupations	215	177	193	138	22	27	0	6
789	Hand Painting, Coating, and Decorating Occupations	710	431	601	289	96	142	7	0

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Operators, Fabricators, and Laborers								
	Machine Operators, Assemblers, and Inspectors - Continued								
793	Hand Engraving and Printing Occupations	38	5	38	0	0	5	0	0
794	Hand Grinding and Polishing Occupations	101	19	62	19	32	0	7	0
795	Miscellaneous Hand Working Occupations	340	554	245	449	95	95	0	10
796	Production Inspectors, Checkers, and Examiners	10094	29255	7871	22184	2140	6510	51	472
797	Production Testers	762	712	636	547	119	165	7	0
798	Production Samplers and Weighers	233	236	174	177	54	59	5	0
799	Graders and Sorters, Except Agricultural	1747	2600	1045	1499	640	1056	40	45
	Transportation and Material Moving (127,283)								
803	Supervisors, Motor Vehicle Operators	993	38	904	29	89	9	0	0
804	Truck Drivers, Heavy	57777	1310	43154	964	14056	321	528	20
805	Truck Drivers, Light	11718	604	9230	517	2422	87	47	0
806	Driver-Sales Workers	6030	478	5318	450	683	28	24	0
808	Bus Drivers	5044	3518	3281	2405	1685	1074	59	32
809	Taxicab Drivers and Chauffeurs	2496	375	1499	179	973	196	19	0
813	Parking Lot Attendants	308	39	243	39	65	0	0	0
814	Motor Transportation Occupations, N.E.C.	72	2	54	2	18	0	0	0
823	Railroad Conductors and Yardmasters	755	0	697	0	58	0	0	0
824	Locomotive Operating Occupations	1011	7	869	7	142	0	0	0
825	Railroad Brake, Signal, and Switch Operators	950	13	713	1	231	6	6	6
826	Rail Vehicle Operators, N.E.C.	52	0	27	0	25	0	0	0
828	Ship Captains and Mates, Except Fishing Boats	529	17	529	6	0	11	0	0
829	Sailors and Deckhands	285	36	269	36	11	0	0	0
833	Marine Engineers	80	2	69	2	11	0	0	0
834	Bridge, Lock, and Lighthouse Tenders	161	7	134	7	27	0	0	0
843	Supervisors, Material Moving Equipment Operators	408	14	376	14	32	0	0	0
844	Operating Engineers	3863	78	3160	63	652	15	32	0
845	Longshore Equipment Operators	30	12	6	12	24	0	0	0
848	Hoist and Winch Operators	309	12	230	12	64	0	7	0
849	Crane and Tower Operators	1812	29	1381	26	409	3	22	0
853	Excavating and Loading Machine Operators	2382	45	1886	32	434	13	62	0
855	Grader, Dozer, and Scraper Operators	2620	52	2218	40	383	12	19	0
856	Industrial Truck and Tractor Equipment Operators	11920	770	7022	489	4758	275	122	6
859	Miscellaneous Material Moving Equipment Operators	5952	2268	4257	1636	1645	612	47	12
	Handlers, Equipment Cleaners, Helpers, and Laborers (158,241)								
863	Supervisors,Handlers,Equipment Cleaners, & Laborers,N.E.C.	490	88	427	76	55	12	8	0
864	Helpers, Mechanics and Repairers	501	58	343	34	150	24	8	0
865	Helpers, Construction Trades	5073	168	3868	125	1086	37	116	6
866	Helpers, Surveyor	260	37	245	37	8	0	0	0
867	Helpers, Extractive Occupations	151	0	108	0	43	0	0	0
869	Construction Laborers	21655	741	13664	481	7496	246	428	6
873	Production Helpers	3054	648	2062	386	925	252	50	6
875	Garbage Collectors	2660	84	966	26	1664	58	25	0
876	Stevedores	294	0	58	0	236	0	0	0
877	Stock Handlers and Baggers	13167	3778	11139	3206	1970	541	27	26
878	Machine Feeders and Offbearers	7425	3114	4570	2009	2741	1076	81	29
883	Freight, Stock, and Material Handlers, N.E.C.	16697	1319	10528	855	5943	459	153	5
885	Garage and Service Station Related Occupations	7181	655	5848	587	1246	62	63	6
887	Vehicle Washers and Equipment Cleaners	3399	1112	2104	681	1238	414	46	10

Census Code	Occupational Category	Total		White		Black		Indian	
		Male	Female	Male	Female	Male	Female	Male	Female
	Operators, Fabricators, and Laborers								
	Handlers, Equipment Cleaners, Helpers, & Laborers - Continued								
888	Hand Packers and Packagers	7550	14725	4903	10391	2470	4040	147	236
889	Laborers, Except Construction	29201	12956	18168	7352	10569	5331	382	225
	Laborers, Except Construction, Nondurables Industry*	7846	5859	4672	3058	3045	2656	93	103
	Laborers, Except Construction, Durables Industry*	6838	3126	4161	2051	2537	1020	115	55
	Laborers, Except Construction, Trans.,Comm.,Utilities*	3121	325	1890	219	1209	106	22	0
	Laborers, Except Construction, Wholesale and Retail Trade*	6379	1921	4519	1153	1799	737	49	25
	Laborers, Except Construction, All Other Industries*	5017	1725	2926	871	1979	812	103	42
	Total (2,741,078)	1505155	1235923	1221802	954368	263011	263712	14070	11681
919	UNEMPLOYED, NO CIVILIAN WORK EXPERIENCE SINCE 1975	6594	11525	3487	5766	2970	5498	68	152

a/ Figures in the total column include all "Other" races in addition to White, Black and Indian.

b/ Figures in parenthesis represent totals of the Civilian Labor Force in the major or minor category listed.

* See User Notes, Occupational Categories.

YEARS OF SCHOOL COMPLETED OF THE NORTH CAROLINA CIVILIAN LABOR FOR BY AGE, SEX AND RACE 1980

Years of Age/School	Total		White		Black		Indian, Eskimo, And Aleut		Asian & Pacific Islander		Other	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
16-19 Years of Age												
0-11 Years of School	76618	54810	60495	43599	15042	10386	781	590	199	132	101	103
12 Years of School	30963	31488	25086	24405	5556	6629	216	292	58	77	47	85
13-15 Years of School	4683	5950	4073	4838	576	1029	2	39	19	34	13	10
16 Years of School	5	19	5	6	0	13	0	0	0	0	0	0
17 Or More Years of School	0	0	0	0	0	0	0	0	0	0	0	0
20-24 Years of Age												
0-11 Years of School	53780	31361	38785	21437	13605	9004	1080	689	90	155	220	76
12 Years of School	89120	84326	68163	61202	19550	21748	1007	1044	185	209	215	123
13-15 Years of School	44883	54118	36817	41920	7637	11473	194	488	143	172	92	65
16 Years of School	13439	19122	11682	16078	1594	2854	79	111	56	59	28	20
17 Or More Years of School	2747	2482	2417	2117	269	346	3	0	39	15	19	4
25-29 Years of Age												
0-11 Years of School	45091	29409	31033	18503	12677	9978	1166	635	75	216	140	77
12 Years of School	81489	77412	60463	54242	19727	21670	1097	1052	102	304	100	144
13-15 Years of School	44389	39713	36510	29925	7431	9241	222	351	125	139	101	57
16 Years of School	28045	28043	24730	23012	3045	4706	109	130	117	167	44	28
17 Or More Years of School	14624	12052	13312	10299	1054	1578	26	23	197	148	35	4
30-34 Years of Age												
0-11 Years of School	46744	32554	33586	21678	12005	9809	1020	707	85	310	48	50
12 Years of School	68252	73427	53049	55487	14222	16950	785	686	93	248	103	56
13-15 Years of School	44054	32877	36775	25328	6730	7117	367	190	130	169	52	73
16 Years of School	27593	17725	24985	14634	2323	2796	110	142	128	138	47	15
17 Or More Years of School	20433	10413	18696	8718	1196	1495	75	36	418	144	48	20
35-39 Years of Age												
0-11 Years of School	48005	33418	35233	23611	11623	9000	1018	626	90	146	41	35
12 Years of School	57658	59674	47770	48361	9401	10502	388	536	34	204	65	71
13-15 Years of School	25280	22705	21779	18396	3305	4043	121	153	59	83	16	30
16 Years of School	16551	11519	15318	9465	1017	1903	114	50	95	89	7	12
17 Or More Years of School	15632	6633	13994	5556	1076	913	63	27	443	126	56	11
40-69 Years of Age												
0-11 Years of School	295606	214915	228795	158013	63557	54241	2935	2160	171	407	148	94
12 Years of School	141017	141651	124371	119864	15719	20547	672	554	181	604	74	82
13-15 Years of School	67920	60067	60978	52612	6536	7014	198	231	130	182	78	28
15 Years of School	46030	28806	43272	23776	2422	4751	130	199	192	66	14	14
17 Or More Years of School	40588	17397	36572	13499	3225	3727	87	38	610	125	94	8
70 Years of Age and Over												
0-11 Years of School	14663	9045	11245	5947	3348	3052	70	38	0	8	0	0
12 Years of School	1557	1512	1373	1130	184	377	0	5	0	0	0	0
13-15 Years of School	1929	1758	1748	1569	168	189	3	0	10	0	0	0
16 Years of School	1187	666	1104	579	72	87	0	0	5	0	6	0
17 Or More Years of School	1174	381	1075	328	89	42	0	11	10	0	0	0
Total Civilian Labor Force												
0-11 Years of School	580507	405512	439172	292788	131857	105470	8070	5445	710	1374	698	435
12 Years of School	470056	469490	380275	364691	84359	98423	4165	4169	653	1646	604	561
13-15 Years of School	233138	217188	198680	174588	32383	40106	1107	1452	616	779	352	263
16 Years of School	132850	105900	121096	87550	10473	17110	542	632	593	519	146	89
17 Or More Years of School	95198	49358	86066	40517	6909	8101	254	135	1717	558	252	47

1980 MAJOR OCCUPATION GROUPS IN TERMS OF 1970 POPULATION CENSUS OCCUPATION CATEGORIES

1980 Census Major Group Categories and Codes	Equivalent 1970 Census Major Group Categories and Codes	
Executive, Administrative and Managerial (003-037)		Managers & Administrators, Except Farm (210-245)
	But Add:	Accountants (001) Personnel & labor relations workers (056) Inspectors, n.e.c. (452)
	Delete:	Ship officers, pilots and pursers (221) Railroad conductors (226)
Professional Specialty Occupations (043-199)		Part of Professional, Technical and Kindred Workers (001-076, 086-145, 174-195)
	But Add:	Decorators & window dressers (425) Health trainees (923)
	Delete:	Accountants (001) Computer programmers (003) Sales engineers (022) Personnel & labor relations workers (056)
Technicians and Related Occupations (203-235)		Part of Professional, Technical and Kindred Workers (080-085, 150-173)
	But Add:	Computer programmers (003) Practical nurses (926)
	Delete:	Therapy assistants (084)
Sales Occupations (243-285)		Sales Workers (260-285)
	But Add:	Sales engineers (022) Cashiers (310) Real estate appaisers (363)
Administrative Support, Including Clerical (303-389)		Clerical and Kindred Workers (301-395)
	But Delete:	Cashiers (310) Real estate appraisers (363)
Private Household (403-407)		Private Household Workers (980-984)
Protective Service (413-427) Service, exc. Protective and Household (433-469)		Service Workers, exc. Private Household (901-965)
	But Add:	Therapy assistants (084) Urban rail transit conductors and motormen (704)
	Delete:	Health trainees (923) Practical nurses (926)
Farming, Forestry and Fishing Occupations (473-499)		Farmers and Farm Managers Farm Laborers and Farm Supervisors (801-824)
	But Add:	Animal caretakers, exc. farm (740) Fishermen & oystermen (752) Gardeners & groundskeepers, exc. farm (755) Lumbermen, raftsmen, & woodchoppers (761)

1980 MAJOR OCCUPATION GROUPS IN TERMS OF 1970 POPULATION CENSUS OCCUPATION CATEGORIES - CONTINUED

1980 Census Major Group Categories and Codes	Equivalent 1970 Census Major Group Categories and Codes
Precision Production, Craft and Repair Occupations (503-699)	Crafts and Kindred Workers (401-580)
	But Add: Asbestos & insulation workers (601) Blasters and powdermen (603) Dressmakers & seamstresses (613) Earth drillers (614) Dry wall installers & lathers (615) Meat cutters & butchers (631 & 633) Milliners (636) Mine operatives, n.e.c. (640) Oilers & greasers, exc. auto (642)
	Delete: Bulldozer operators (412) Compositors & typesetters (422) Printing trades apprentices (423) Cranemen, derrickmen & hoistmen (424) Decorators & window dressers (425) Electrotypers & stereotypers (434) Excavating, grading & road machine operators (435) Forgemen and hammermen (442) Heat treatters, annealers and temperers (446) Log & lumber inspectors, scalers and graders (450) Inspectors, n.e.c. (452) Locomotive engineers (455) Locomotive firemen (456) Millers (grain, flour & feed) (501) Motion picture projectionists (505) Photoengravers & lithographers (515) Printing pressmen & plate printers (530) Pressmen apprentices (531) Metal rollers & finishers (533) Sign painters & letterers (543)
Machine Operators, Assemblers and Inspectors (703-799)	Operatives, exc. Transport (601-695)
	But Add: Compositors & typesetters (422) Printing trades apprentices (423) Electrotypers & stereotypers (434) Forgemen & hammermen (442) Heattreaters, annealers & temperers (446) Log and lumber inspectors, scalers & graders (450) Millers (grain, flour & feed) (501) Motion picture projectionists (505) Photoengravers & lithographers (515) Printing pressmen & plate printers (530) Pressmen apprentices (531) Metal rollers & finishers (533) Sign painters & letterers (543)
	Delete: Asbestos & insulation workers (601) Blasters & powdermen (603) Surveying chairmen, rodmen & axmen (605) Dressmakers & seamstresses (613) Earth drillers (614) Drywall installers & lathers (615) Garage workers & gas station attendants (623) Meat cutters & butchers (631 & 633) Meat wrappers, retail trade (634) Milliners (636) Mine operatives, n.e.c. (640) Oilers & greasers, exc. auto (642) Packers & wrappers (643) Sailors & deckhands (661)

1980 MAJOR OCCUPATION GROUPS IN TERMS OF 1970 POPULATION CENSUS OCCUPATION CATEGORIES - CONTINUED

1980 Census Major Group Categories and Codes	Equivalent 1970 Census Major Group Categories and Codes	
Transportation and Material Moving Occupations (803-859)		Transport Equipment Operatives (701-715)
	But Add:	Ship officers, pilots & pursers (221) Railroad conductors (226) Bulldozer operators (412) Cranemen, derrickmen & hoistmen (424) Excavating, grading & road machine operators (435) Locomotive engineers (455) Locomotive firemen (456) Surveying chairmen, roadmen and axmen (605) Teamsters (763)
	Delete:	Urban rail transit conductors & motormen (704)
Handlers, Equipment Cleaners, Helpers and Laborers (863-889)		Laborers, exc. Farm (740-785)
	But Add:	Garage workers & gas station attendants (623) Meat wrappers, retail trade (634) Packers & wrappers (643) Sailors & deckhands (661)
	Delete:	Animal caretakers, exc. farm (740) Fishermen & oystermen (752) Gardeners & groundskeepers, exc. farm (775) Lumbermen, raftsman & woodchoppers (761) Teamsters (763)

DEFINITIONS AND EXPLANATIONS

REFERENCE WEEK

The data on labor force status relate to the calendar week preceding the week in which the respondents completed their questionnaires or were interviewed by enumerators. The reference week is not the same for all respondents because not all persons were enumerated during the same week. Since Census Day was April 1, 1980, the reference week for many respondents was the last week of March 1980.

LABOR FORCE STATUS

Civilian Labor Force - The civilian labor force consists of persons classified as employed or unemployed according to the following criteria:

Employed - Employed persons include all civilians 16 years old and over who were either (a) "at work" - those who did any work at all during the reference week as paid employees or in their own business, profession, or farm, or who worked 15 hours or more as unpaid workers on a family farm or in a family business; or (b) "with a job but not at work" - those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are persons whose only activity consisted of work around the house or volunteer work for religious, charitable, and similar organizations.

Unemployed - Persons are classified as unemployed if they are civilians 16 years old and over and (a) were neither "at work" nor "with a job but not at work" during the reference week, (b) were looking for work during the last 4 weeks, and (c) were available to accept a job. Also included as unemployed are persons who did not work at all during the reference week and were waiting to be called back to a job from which they had been laid off.

Although the EEO Special File and this report contain data for the entire civilian labor force, occupation data are shown only for the "recent-experienced" civilian labor force, (defined as persons employed in 1980 or unemployed having civilian work experience between 1975-1980).

Unemployed, No Civilian Work Experience Since 1975 - Persons are classified as unemployed with no civilian work experience since 1975 if they reported themselves as unemployed at the time of the 1980 Census and one of the following: (1) their last job since 1975 was in the Armed Forces; or (2) they last worked in 1974 or earlier; or (3) they reported that they had never worked.

OCCUPATION

The data on occupation were obtained for the employed, the experienced unemployed, and persons 16 years old and over with work experience but not currently in the labor force. For the last two categories, the occupation is the most recent job that a person held during the previous five years. For an employed person the information is about the job held during the reference week. Those who were employed at two or more jobs reported the job at which they worked the greatest number of hours during the reference week.

Classification System - The occupation statistics utilize the detailed classification system developed for the 1980 Census of Population. This classification consists of 503 specific occupation categories arranged into 6 summary and 13 major occupation groups. It is based on the 1980 Standard Occupational Classification (SOC) Manual, published by the U.S. Department of Commerce, Office of Federal Statistical Policy and Standards.

This report presents the 503 detailed occupation categories, plus a category for unemployed with no civilian work experience since 1975, and industry and class of worker subcategories for a few selected occupations. The publication 1980 Census of Population: Classified Index of Industries and Occupations, PHC80-R4, U.S. Government Printing Office, Washington, D.C., 1982, and the SOC Manual provide information on the composition of the detailed categories.

Comparability with 1970 Occupation Data - Although the 1980 Census/EEO Special File is the counterpart file to the 1970 special tabulations, the 1980 data are not totally comparable to the 1970 data because of major differences between the classification systems used for coding occupations in 1970 and 1980. Prior to the 1980 Census there was no government-wide standard on which to base the successive decennial census occupational classification system. In 1977 (revised in 1980) the Office of Federal Statistical Policy and Standards developed the SOC system for use by all Federal agencies. The 1980 Census system is the first based on this SOC system.

One advantage of this new classification is greater consistency of occupation data among government sources. On the other hand, since many 1980 occupation groups and categories are only partially comparable to the ones in 1970, the differences will complicate EEO and other studies attempting to measure changes during the decade.

Some of the differences in the classification structure are as follows:

1. Working proprietors in sales and other sales managers who perform some of the same duties as the workers they supervise are now classified as "sales supervisors" rather than "managers".

2. "Cashiers" and some "counter clerks, except food" were transferred from "clerical" to "sales workers".

3. The farming occupations were expanded to include related off-farm activities, so some former "laborers" (e.g., gardeners) were transferred to this group.

4. Some 1970 "operatives" were moved to "precision production occupations", such as "butchers and meat cutters", "dressmakers", "drywall installers", and "precision assemblers".

5. Conversely, some 1970 "craft workers" moved to "machine operators" or to "transportation and material moving occupations". Examples are "job setters" (those who set up a machine for others), "printing press operators", "locomotive operating occupations", and "excavating and loading machine operators".

A more detailed description of the changes in the classification systems and the data will be presented in a technical paper equivalent to the technical paper which compared the 1960 system to the 1970 system.[1]

INDUSTRY AND CLASS OF WORKER

This report shows data on major industry and class of worker subcategories for selected occupation groups. The information on industry and class of worker refers to the same job as the respondent's occupation. The industry statistics are based on the 1980 Census detailed classification system developed from the U.S. Standard Industrial Classification (SIC) system. Definitions of the class of worker categories shown in this report are as follows:

Salaried Employees - Persons who work for a private employer or for any Federal, State, or local governmental unit for wages, salary, commission, tips, pay-in-kind, or at piece rates; this category also includes persons who work as employees of their own incorporated business or trade.

Self-employed - Those who work for profit or fees in their own unincorporated business, profession, or trade, or who operate a farm, or who work without pay in a family business or farm.

RACE

Definition - The concept of race as used by the Census Bureau reflects self-identification by respondents; it does not denote any clear-cut scientific definition of biological stock. The data, therefore, represent self-classification by people according to the race with which they identify.

[1]U.S. Bureau of the Census, 1970 Occupation and Industry Classification Systems in Terms of Their 1960 Occupation and Industry Elements, (Technical Paper 26).

For persons who could not provide a single response to the race question, the race of the person's mother was used; however, if a single response could not be provided for the person's mother, the first race reported by the person was used. This is a modification of the 1970 Census procedure in which the race of the person's father was used.

The category "White" includes persons who indicated their race as White, as well as persons who did not classify themselves in one of the specific race categories listed on the questionnaire, but entered a response such as Canadian, German, Italian, Lebanese, or Polish. In the 1980 Census, persons who did not classify themselves in one of the specific race categories but marked "Other" and wrote in entries such as Cuban, Puerto Rican, Mexican, or Dominican were included in the "Other" race category; in the 1970 Census, most of these persons were included in the "White" category.

The category "Black" includes persons who indicated their race as Black or Negro, as well as persons who did not classify themselves in one of the specific race categories listed on the questionnaire, but reported entries such as Jamaican, Black Puerto Rican, West Indian, Haitian, or Nigerian.

The category "American Indian, Eskimo, and Aleut" includes persons who classifed themselves as such in one of the specific race categories. In addition, persons who did not report themselves in one of the specific race categories but entered the name of an Indian tribe or reported such entries as Canadian Indian, French American Indian, or Spanish American Indian were classified as American Indian.

The category "Asian and Pacific Islander" includes persons who indicated their race as Chinese, Filipino, Japanese, Asian Indian, Korean, Vietnamese, Hawaiian, Samoan, or Guamanian, as well as persons who provided write-in entries of such Asian and Pacific Islander groups as Cambodian, Laotian, Pakistani, and Fiji Islander under the "Other" race category. Also, persons who did not classify themselves in one of the specific race categories but wrote in an entry indicating one of the nine specific categories listed above were classified accordingly. For example, entries of Nipponese and Japanese American were classified as Japanese, entries of Taiwanese and Cantonese as Chinese, etc.

The category "Race, n.e.c." includes all persons not in the categories White, Black, American Indian, Eskimo and Aleut, and Asian and Pacific Islander mentioned previously. Persons reporting in the "Other" race category and providing write-in entries such as Eurasian, Cosmopolitan, Interracial, or a Spanish origin group (e.g., Mexican, Cuban, or Puerto Rican) were included in "Race, n.e.c." During the coding operations, each of the subgroups comprising "Race, n.e.c." as well as the write-in entries of Asian and Pacific Islander groups under the "Other" race category were identified separately. The Bureau plans to provide figures for the component groups in subsequent 1980 Census reports.

If the race entry was missing on the questionnaire for a member of a household, an answer was assigned in the computer according to the reported entries of race of other household members using specific rules of precedence of household relationship. If race was not entered for anyone in the household (excluding paid employees), the race of a householder in a previously processed household was assigned.

Comparability with 1970 Race Data - Differences between the 1980 Census and the 1970 Census in reporting and processing seriously affect comparability for certain race groups. First, a large number of Spanish origin persons reported their race differently in the 1980 Census than in the 1970 Census. This difference in reporting has a substantial impact on the population totals and comparability for the "White" population, and the "Race, n.e.c.," or "Other" race population (shown as "All other races" in most 1970 publications). A much larger proportion of the Spanish origin population in 1980 than in 1970 reported their race as "Other." Second, in 1970, most persons who marked the "Other" race category and wrote in a Spanish designation such as Mexican, Venezuelan, Latino, etc., were reclassified as "White." In 1980, such persons were not reclassified but remained in the "Other" race category.

As a result of this procedural change and the differences in reporting by this population, the proportion of the Spanish origin population classified as "Other" race in the 1980 Census was substantially higher than that in the 1970 Census. Nationally, in 1970, only 1 percent of Spanish origin persons were classified as "Other" race and 93 percent as "White." In 1980, a much larger proportion - 38 percent - of Spanish origin persons reported their race as "Other" and only 58 percent reported "White." As a consequence of these differences, 1980 population totals for "White" and "Race, n.e.c." are not comparable with corresponding 1970 figures.

Data were collected separately for Eskimos and Aleuts in all states for the first time in the 1980 Census. In 1970, these data were available only for Alaska. Since Eskimos and Aleuts are highly concentrated in Alaska, these changes did not seriously affect the comparability of 1980 and 1970 data for the "American Indian, Eskimo, and Aleut" population.

The 1980 data on the Asian and Pacific Islander population reflect a high level of immigration during the 1970's as well as a number of changes in census procedures. First, the number of Asian and Pacific Islander categories listed separately on the 1980 Census questionnaire was expanded to include Vietnamese, Asian Indian, Guamanian, and Samoan. Asian Indians, classified as "White" in 1970, were included in the "Asian and Pacific Islander" category in 1980. The Vietnamese, Guamanian, and Samoan populations were included in the "Other" race category in the 1970 Census, but in the "Asian and Pacific Islander" category in 1980. Second, "Other Asian and Pacific Islander" groups such as Cambodian, Laotian, Pakistani, and Fiji Islander were identified and tabulated as "Asian and Pacific Islander" in the 1980 Census; in 1970, most of these groups were included in the "Other" race category. Also, in 1980, data were collected separately for Hawaiians and Koreans in all states, but in 1970, Eskimo and Aleut were substituted for these two categories in Alaska. Since the numbers of Hawaiians and Koreans in Alaska were small, this change does not have a significant impact on the comparability of the 1980 and 1970 data.

SPANISH ORIGIN

Definition - Persons of Spanish/Hispanic origin or descent are those who classified themselves in one of the specific Spanish origin categories listed in question 7 on the questionnaire - Mexican, Puerto Rican, or Cuban - as well as those who indicated that they were of other Spanish/Hispanic origin. Persons reporting "other Spanish/Hispanic" origin are those whose origins are from Spain, the Spanish-speaking countries of Central or South America, or they are Spanish origin persons identifying themselves generally as Spanish, Spanish American, Hispano, Latino, etc. Origin or descent can be viewed as the ancestry, nationality group, lineage, or country in which the person or person's parents or ancestors were born before their arrival in the United States. Persons of Spanish origin may be of any race.

Persons of more than one type of Spanish origin and persons of both a Spanish and some other origin(s) who were in doubt as to how to report a specific origin were classified according to the origin of the person's mother. If a single origin was not provided for the person's mother, then the first origin reported by the person was recorded. If any household member failed to respond to the Spanish/Hispanic origin question, a response was assigned by computer in the sample edit operation according to available related information such as ancestry and place of birth reported for the household member. If such information was not reported, origin was assigned from entries of other household members using specific rules of precedence of household relationship. If no origin was reported for any household member (excluding a paid employee), then an origin was assigned from another household with a householder of the same race.

Limitations of the Spanish Origin Data - A preliminary evaluation study of the reporting in the 1980 Census item on Spanish origin indicated that there was misreporting in the Mexican origin category by White and Black persons in certain areas. The study results showed evidence that the misreporting occurred in the South (excluding Texas), the Northeast (excluding the New York City area), and a few states in the North Central Region. Also, results based on available data suggest that the impact of potential misreporting of Mexican origin in the 1980 Census is severe in those portions of the above-mentioned regions where the Spanish origin population is generally sparse. However, 1980 Census data on the Mexican origin population, or total Spanish origin population, at the national level, are not seriously affected by the reporting problem. For a more detailed discussion of the evaluation of the Spanish origin item, see the 1980 Census of Population Supplementary Report, Persons of Spanish Origin by State: 1980, PC80-S1-7.

Comparability with 1970 Spanish Origin Data - The 1980 figures on Spanish origin are not directly comparable with 1970 Spanish origin totals because of several factors: namely, overall improvements in the 1980 Census, better coverage of the population, improved question design, and an effective public relations campaign by the Census Bureau with the assistance of national and community ethnic groups. These efforts at census improvements explain, in part, the large increase in the number of Hispanics over 1970. Also, these efforts undoubtedly resulted in the inclusion of a sizable but unknown number of persons of Hispanic origin who are in the country in other than legal status.

In the 1980 Census Spanish origin question, specific changes in design from the 1970 question included the placement of the category "No, not Spanish/Hispanic" as the first category in that question. The corresponding category appeared last in the 1970 question. The category "Central or South American" was deleted because in 1970 some respondents misinterpreted the category, and the designations "Mexican-American" and "Chicano" were added to the Spanish origin question in 1980. In the 1970 Census, the question on Spanish origin was asked of only a 5-percent sample of the population; in the 1980 Census, the Spanish origin question was asked of everyone in the Nation.

AGE

The age classification is based on the age of the person in completed years as of April 1, 1980, and was determined from the response to questions on age at last birthday, and month and year of birth.

YEARS OF SCHOOL COMPLETED

The data on years of school completed were based on the responses to the questions on the highest grade (or year) that the person had ever attended. Persons whose education was received in a foreign school system or an ungraded school were instructed to report the approximate equivalent grade in the regular American school system. If a person were currently attending or did not finish the highest grade attended, he or she was tabulated as having completed the previous grade or year.

Facsimile of questionnaire Items 28-30.

28–30. Current or most recent job activity

Describe clearly this person's chief job activity or business last week.
If this person had more than one job, describe the one at which this person worked the most hours.
If this person had no job or business last week, give information for last job or business since 1975.

28. Industry

a. For whom did this person work? *If now on active duty in the Armed Forces, print "AF" and skip to question 31.*

(Name of company, business, organization, or other employer)

b. What kind of business or industry was this?
Describe the activity at location where employed.

(For example: Hospital, newspaper publishing, mail order house, auto engine manufacturing, breakfast cereal manufacturing)

c. Is this mainly — *(Fill one circle)*

- Manufacturing ■
- Wholesale trade
- Retail trade
- Other — *(agriculture, construction, service, government, etc.)*

29. Occupation

a. What kind of work was this person doing?

(For example: Registered nurse, personnel manager, supervisor of order department, gasoline engine assembler, grinder operator)

b. What were this person's most important activities or duties?

(For example: Patient care, directing hiring policies, supervising order clerks, assembling engines, operating grinding mill)

30. Was this person — *(Fill one circle)*

- Employee of private company, business, or individual, for wages, salary, or commissions ■
- Federal government employee
- State government employee
- Local government employee *(city, county, etc.)*
- Self-employed in own business, professional practice, or farm —
  - Own business not incorporated
  - Own business incorporated
- Working without pay in family business or farm

Instructions to the Respondent
Respondent for Questionnaire
Items 28-30.

28a. If the person worked for a company, business, or government agency, print the name of the company, not the name of the person's supervisor. If the person worked for an individual or a business that has no company name, print the name of the individual worked for. If the person worked in his or her own business, print "self-employed."

b. Print two or more words to tell what the business, industry, or individual employer named in 28a does. If there is more than one activity, describe only the major activity *at the place where the person works.* Enter what is made, what is sold, or what service is given.

Some examples of what is needed to make an answer acceptable are shown on the census form and here.

Unacceptable	Acceptable
Furniture company	Metal furniture manufacturing
Grocery store	Wholesale grocery store
Oil company	Retail gas station
Ranch	Cattle ranch

c. Mark **Manufacturing** if the factory, plant, mill, etc., mostly makes things, even if it also sells them.

Mark **Wholesale trade** if the business mostly sells things to stores or other companies.

Mark **Retail trade** if the business mostly sells things (not services) to individuals.

Mark **Other** if the main activity of the employer is not making or selling things. Some examples of **Other** are farming, construction, and services such as those provided by hotels, dry cleaners, repair shops, schools, and banks.

29a. Print two or more words to describe the kind of work the person does. If the person is a trainee, apprentice, or helper, include that in the description.

Some examples of what is needed to make an answer acceptable are shown on the census form and here.

Unacceptable	Acceptable
Clerk	Production clerk
Helper	Carpenter's helper
Mechanic	Auto engine mechanic
Nurse	Registered nurse

b. Print the most important things that the person does on the job. Some examples are shown on the census form.

30. If the person was an employee of a *private* nonprofit organization, such as a church, fill the first circle.

Mark **Local government employee** for a teacher working in an elementary or secondary public school.